

AMENDMENTS TO THE SPECIFICATION:

Please insert the following new paragraph after page 5, line 32, as follows:

FIG. 8a is an end view of another embodiment of the catheter in accordance with aspects of the invention;

Please amend the paragraph beginning on page 16, line 24, as follows:

Instead of a temperature sensing element 54, another embodiment includes ultrasonic piezoelectric elements 55 which emit pulsed ultrasound waves. The piezoelectric elements 55 are operated in pulse-echo fashion to measure the distance to the vein wall from the catheter shaft. Again, the signals representative of the pulse-echo would be input to the microprocessor or to a monitor to allow for manual control, and the application of RF energy would be controlled accordingly.